



Hamilton

Community Climate Change Action Plan (BOH15025)

Presentation to the Board of Health

October 19, 2015

Brian Montgomery

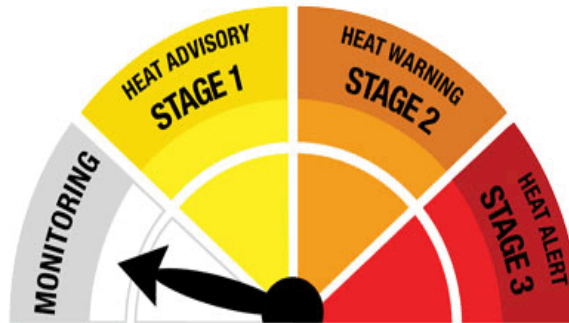
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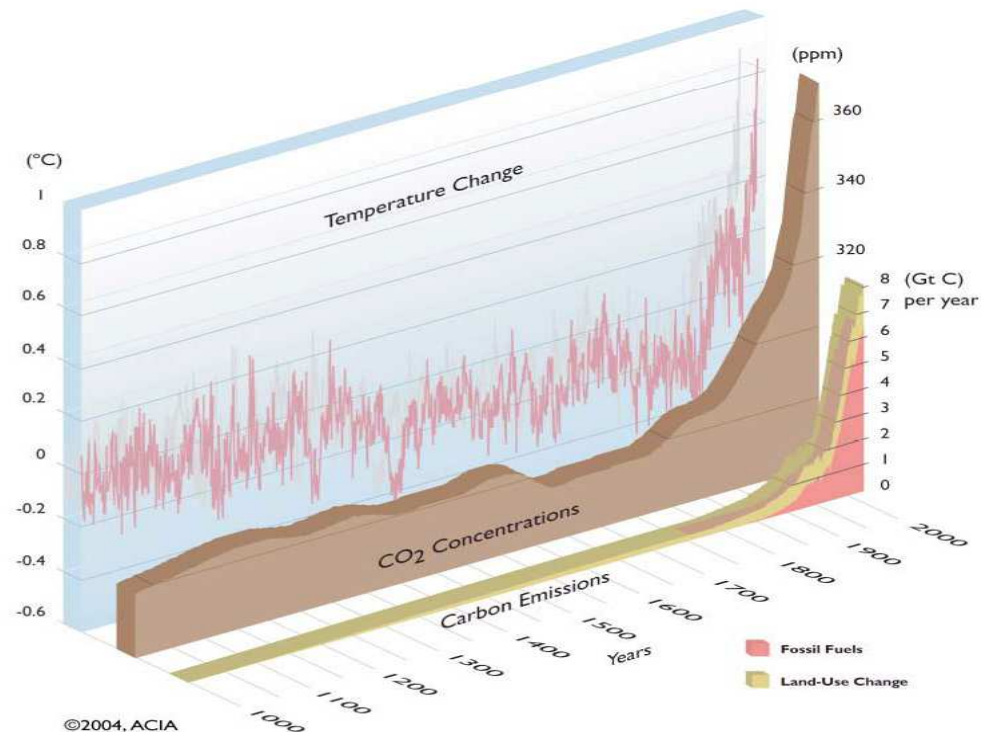
Climate Change

- Changes in the climate or long-term, average weather patterns.



Key Greenhouse Gases (GHGs)

- Carbon Dioxide (CO_2)
- Methane (CH_4)
- Nitrous Oxide (N_2O)
- Hydrofluorocarbons (HFC's)
- Perfluorocarbons (PFC's)
- Sulfur Hexafluoride (SF_6)
- Nitrogen Trifluoride (NF_3)



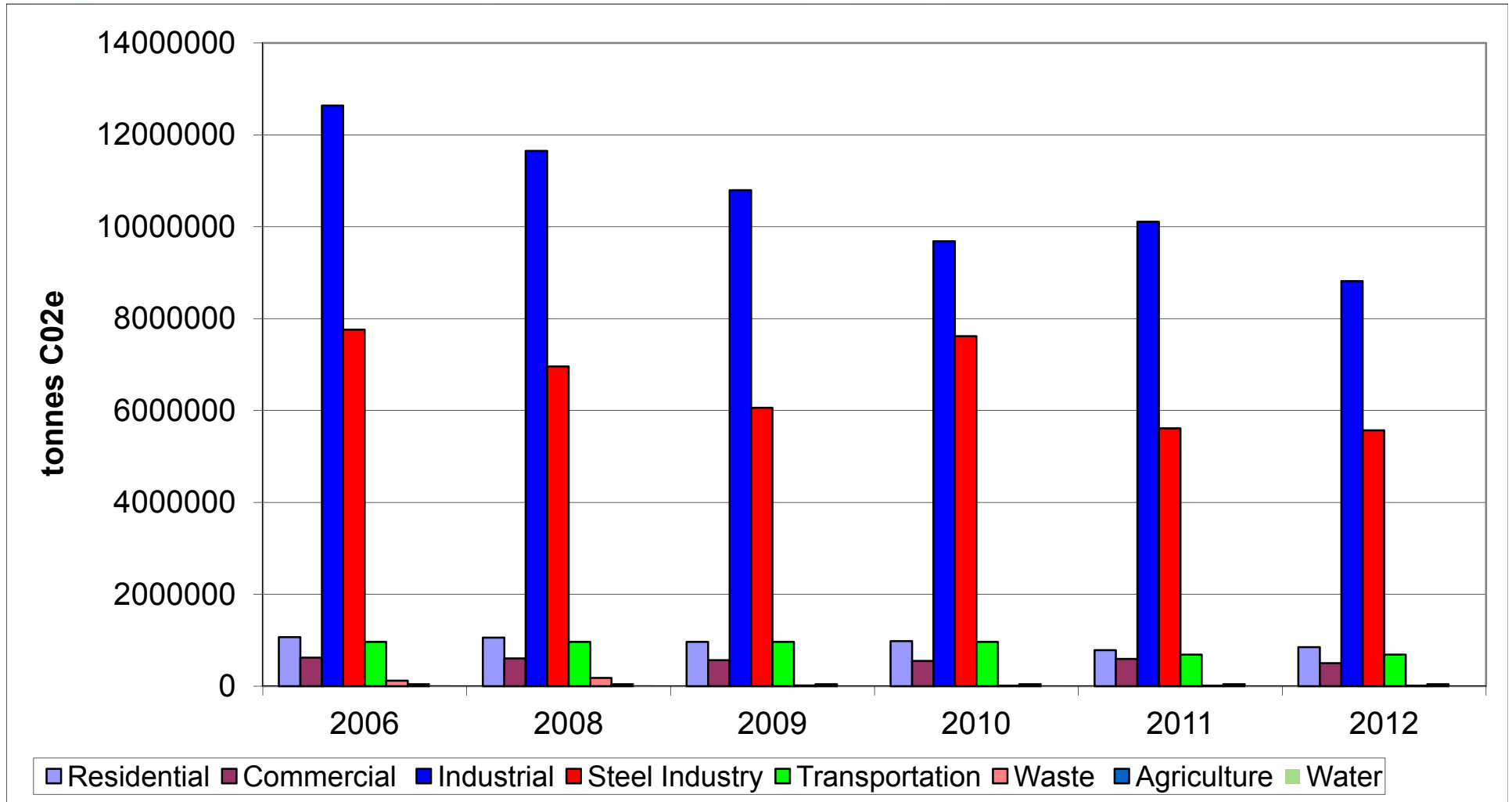
Community (weather) impacts...



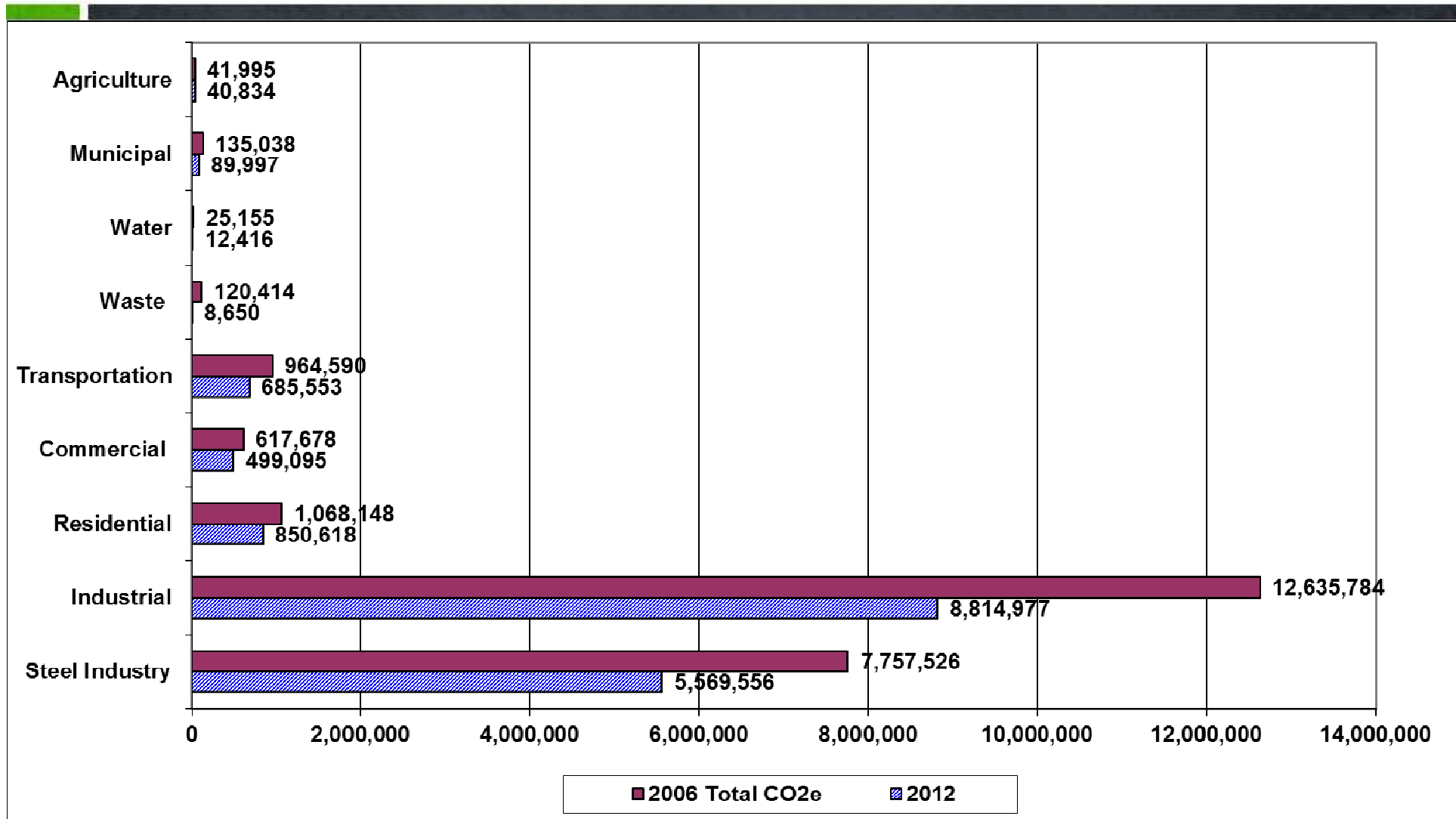
- Average Mean Temp. since 1970 increased 0.9 C.
- Annual Total Precipitation increased 26 mm.
- 100 & 50 year storms caused flooding.
- Floods, Microbursts, Drought, Invasive species...



Community Emissions Trends 2008-2012

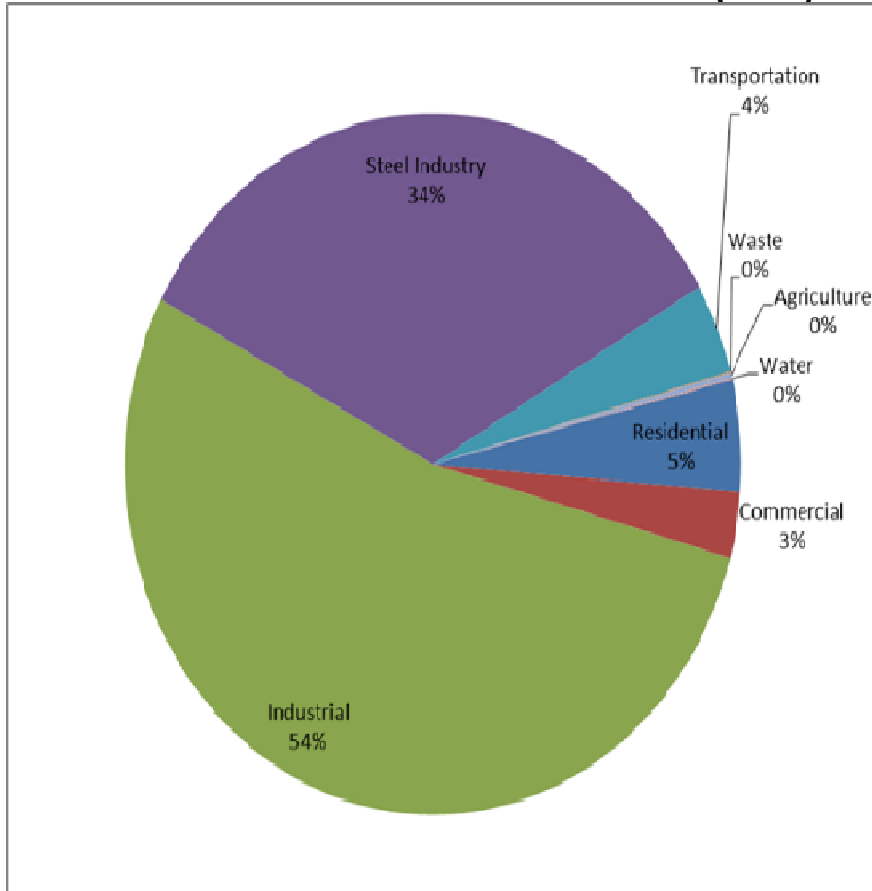


Community Emissions Changes 2006-2011

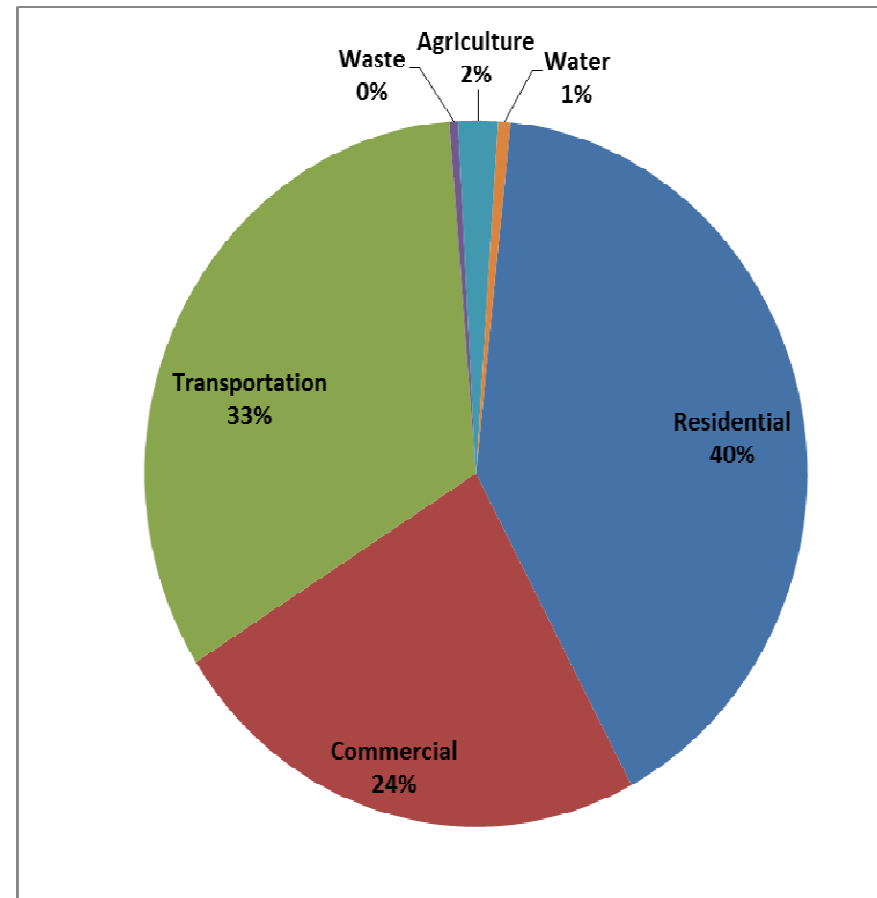


Community Emissions 2012

Hamilton's Total Greenhouse Gas Emissions (2012)



Hamilton's Non-Industrial Greenhouse Gas Emissions



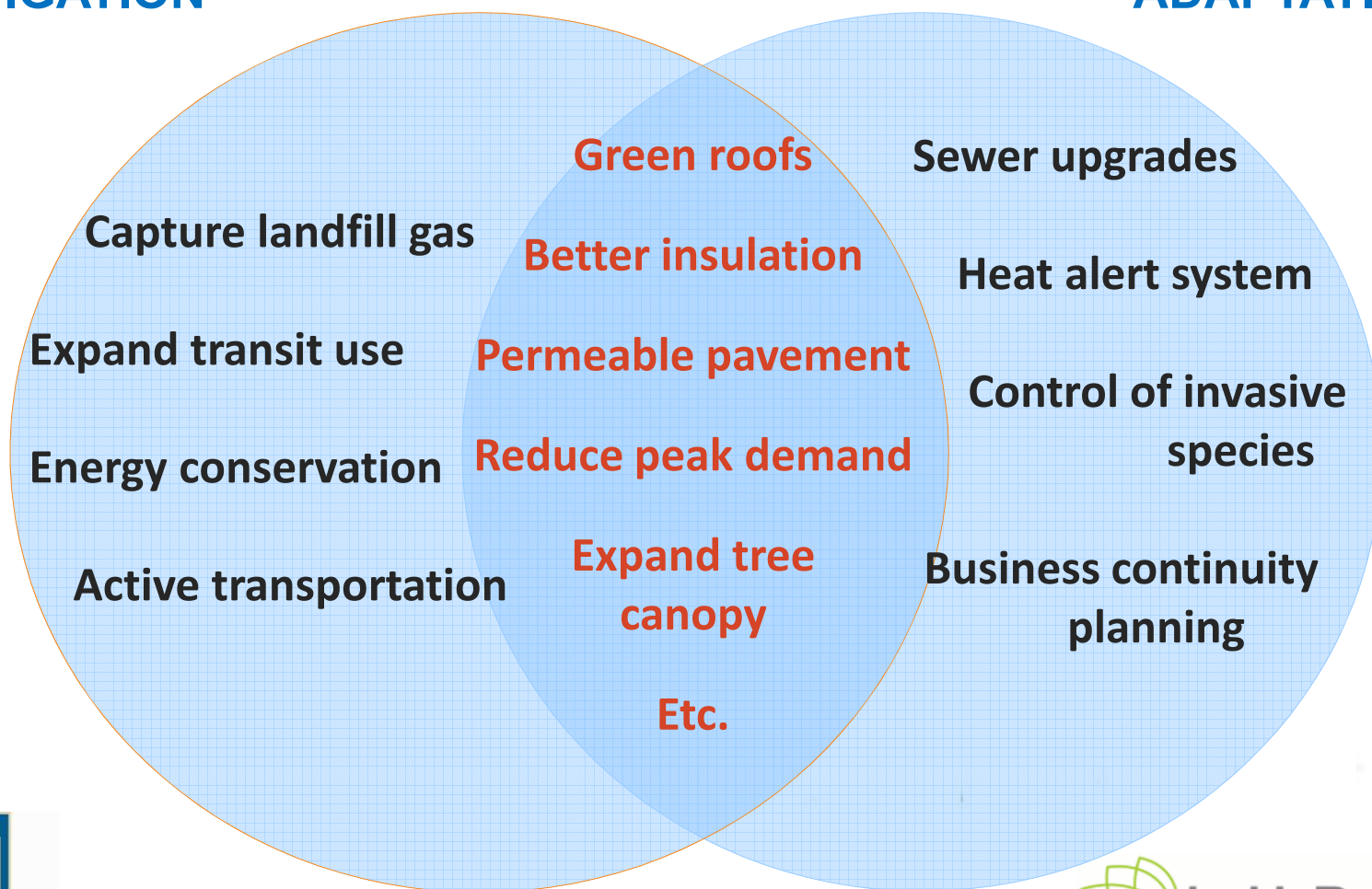
Why a Plan?

- December 2013 - Council endorsed the development of a Community Climate Change Action Plan (BOH13204).
- Identified under the City of Hamilton 2012-2015 Strategic Plan.
- Climate Change is happening and happening locally.
- Impacts the community (good and bad).
- Sources of action in community.
- City cannot address the challenge alone.
- Community wants action.
- Builds on community and City action.

GHG Mitigation and Adaptation Together

MITIGATION

ADAPTATION



Lets Talk About the Weather

- Hamilton Climate Change Action Plan
 - Be prepared for risks/impacts of climate change (Adaptation)
 - Reduce greenhouse gas emissions (80% by 2050) (Mitigation)
 - Looking for opportunities for action

MAP OF ENGAGEMENT REACH

- Climate Convo Cafe
- Places and Spaces
- Workshop-in-a-Box



Engagement Reach...

Mechanism	Engagement by the Numbers
Climate Conversation Launch Event (July 22, 2014)	~100 attendees
Places & Spaces Conversations (30 locations)	20+ conversations 200 + individuals
Workshop (4)	150+ participants
Task Forces	8 Task Forces 65+ Task Force members
Notices and Newsletters	358 individuals 91 neighbourhood associations, businesses and organizations
Twitter (@climateconvo)	290+ followers

Themes (Taskforces)

**Agriculture &
Food**

**Awareness &
Education**

Energy

Infrastructure

**Land Use,
Buildings & Build
Form**

**Local Economy &
Business**

People & Health

**Transportation/
Mobility**

**Water & Natural
Heritage**

Ten Actions (1 – 3 years)

- Support local food production/consumption and integrate climate change mitigation/adaptation strategies into existing farm and food plans and initiatives
- Establish ongoing education and awareness program/campaign for climate change
- Develop a Community Energy Plan to guide the Hamilton community's energy future
- Revise and update municipal infrastructure guidelines to prioritize Low Impact Development (LID) as a preferred method for stormwater management
- Establish variable development charges to reflect real costs of buildings and maintaining infrastructure

Ten Actions (1 – 3 years)

- Create an accessible toolkit for businesses to assist with impact analysis and business continuity planning
- Conduct a local community vulnerability assessment of public health impacts from climate change
- Expand public transit services to include dedicated rapid transit lanes where possible
- Secure property that serves as source water storage or preserves wildlife corridors within the catchment
- Establish an ongoing oversight and coordination body to guide implementation of the Hamilton Climate Change Action Plan and report back on community progress and success

Table 23
Estimated Annual Impacts of the Climate Action Plan Priorities in Hamilton

Climate Action Plan		A. Environmental Impacts			B. Province Wide Economic Impacts					C. Regional Economic Impacts in Hamilton				
		GHG Emissions (tonnes CO ₂ /year)			\$000's	\$000's	\$000's	\$000's		\$000's	\$000's	\$000's	\$000's	
		Gross	Reduction	Net	Total Investment and Incremental Expenditures	Gross Economic Activity	Value Added to Provincial Economy	Tax Revenue to all Levels of Government	Provincial Employment (FTEs)	Avoided Cost	Gross Local Economic Activity	Value Added to Local Economy	Tax Revenue to Local Government	Local Employment (FTEs)
1	Support Local Food Production and Consumption	16,072	3,541	12,531	\$36,638	\$86,268	\$46,925	\$14,052	842.0		\$76,489	\$44,572	\$1,737	604.0
2	Establish On-Going Education and Awareness Program Campaign	34		34	\$40	\$116	\$42	\$13	0.5		\$61	\$22	\$1	0.3
3	Develop a Community Energy Plan to Guide Hamilton's Energy Future	5,467	8,585	-3,118	\$5,892	\$14,644	\$7,359	\$2,275	68.4	\$5,892	\$10,429	\$4,478	\$142	44.5
4	Revise/Update Infrastructure Guidelines (annualized)	11,412	23,692	-12,280	\$12,304	\$30,310	\$15,280	\$4,734	141.1	\$12,304	\$22,394	\$9,351	\$278	91.7
5	Establish Variable Development Charges and Water Rates set to reflect real cost (10%).	14,606	8,336	6,270	\$15,747	\$38,791	\$19,555	\$6,059	181.0	\$15,747	\$28,345	\$11,810	\$355	118.0
6	Create an Accessible Tool Kit for SMEs to assist with impact analysis and Business Community Planning (one-time cost)	209		209	\$250	\$639	\$334	\$106	3.2		\$488	\$251	\$7	2.1
7	Conduct a Local Community Vulnerability assessment of Public Health Impacts from Climate Change	8,634	7,045	1,589	\$9,343	\$23,015	\$11,602	\$3,595	107.2	\$9,343	\$16,537	\$7,101	\$211	69.7
8	Expand Local Transit Services to include a dedicated Rapid transit Lanes	23,024	231,738	208,714	\$24,823	\$61,140	\$30,827	\$0,551	285.0	\$24,823	\$44,681	\$18,617	\$560	185.0
9	Protect and preserve green spaces	972	529	443	\$1,060	\$2,652	\$1,349	\$417	13.4	\$1,000	\$2,000	\$860	\$27	7.3
10	Establish an Ongoing Oversight and Coordination body to Guide and report on Hamilton's Climate Change Action Plan.	115		115	\$147	\$377	\$208	\$66	1.8		\$182	\$129	\$4	0.9
	TOTAL	80,546	283,467	-202,920	\$106,244	\$257,961	\$133,481	\$40,868	1,643.6	\$69,109	\$201,606	\$97,191	\$3,321	1,123.5

Source: Econometric Research Limited

Next steps..

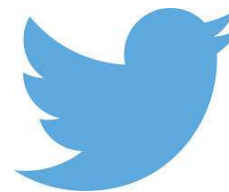
- Plan approved by Council (2015)
- Climate Change Action Committee formed (2016)
- Implement Actions
- Continue engagement and communicate
- Work with community and staff
- Find further funding opportunities
- Report progress annually

Let's Talk About the Weather



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